

## Symbol Translation

Turning *word statements* into algebraic or numeric *equations*.

...is equal to	...is greater than	...is less than	...is greater than or equal to	...is less than or equal to
=	>	<	$\geq$ $\geq$	$\leq$ $\leq$
Totals	* Read from left to right..... or .....read the variable first than through the symbol.			

Addition +	Subtraction - $\Delta$	Multiplication ( ) $\bullet$ $\times$	Division $\div$ $/$
Add Plus Sum of Increased by More than (*)	Subtract Minus Difference Decrease by Take away Diminished by Reduce by Less than (*)	Multiply Times Product of Twice, Double Triple, etc. half of, quarter of, etc. of Magnify by	Divide Quotient split into parts
Heavier than	Lighter than		
Bigger than	Smaller than		

Match the correct *algebraic equations* for each *word statements*:

- |   |                       |
|---|-----------------------|
| 1. ____ The product of three and the variable x is eleven.          | a. $x + 2 \geq 8$     |
| 2. ____ The difference of the variable x and five is less than ten. | b. $2x < 12$          |
| 3. ____ The sum of two and x is greater than or equal to eight.     | c. $3x = 11$          |
| 4. ____ Two times x is less than twelve.                            | d. $\frac{x}{2} > 20$ |
| 5. ____ The quotient of x and 2 is greater than twenty.             | e. $x - 5 < 10$       |

Note:

An algebraic equation connects two expressions with an equal sign or inequality; and a word statement ends in a period.